

5/22/85

Number 181

AGS Studies Report

Date(s) May 22, 1985 Time(s) 0400 - 0700

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Reported by A. Feltman

Subject/Experiment To program power supplies for horizontal and vertical high field quadrupole strings to shift tune of AGS during acceleration cycle

Preliminary Preparation

Two function generator cards were installed and SEB programs QVERT and QHORIZ were setup to talk to these cards. The function generator outputs were coupled to the respective d.c. power supply reference inputs. The SCR bridges were also bypassed.

Observations and Conclusion

QHORIZ and QVERT were called and the respective function generators programmed through "FUNK". QHORIZ was setup in the LIN mode and QVERT was setup in the ramp mode. This was done to demonstrate the versatility of the function generators.

The function generator amplitudes and time settings are as shown with photos of the function generator output voltages and the corresponding magnet string currents.

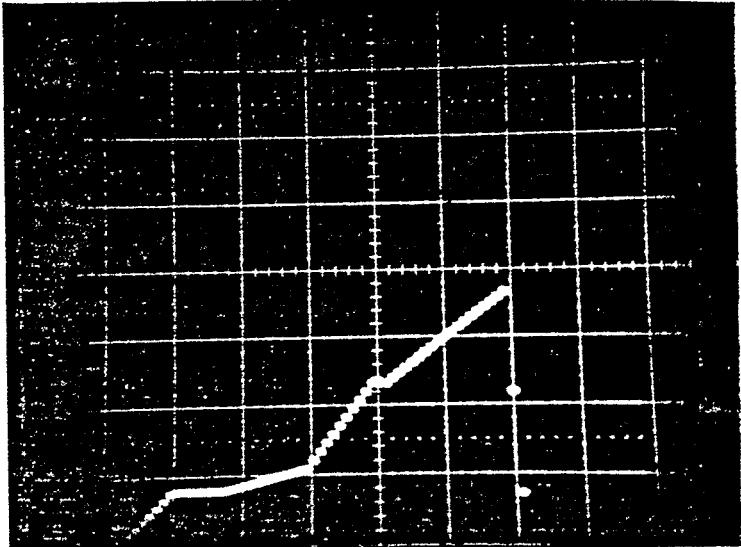
One hundred amps full scale was used rather than two hundred amps because it appeared that we could not drive the power supply this high. It appears that the MUX for QVERT is probably off by 2/1.

mvh

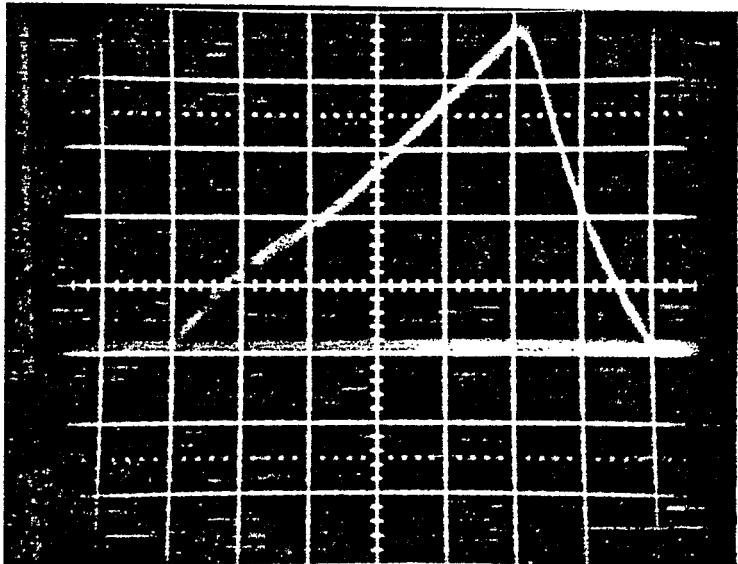
SEB
TIME= 1000

HFELET 22-May-85 06:37 27.9
PRIORITY= 4

AREA	EQPT	REQUEST	READBACK
1 SEB	QHORZ	1 ON	515 -514
2 SEB	QH1A	50	MSEC T0
3 SEB	QH1S	10 LIN	MSEC T0
4 SEB	QH1T	4 ON	MSEC T0
5 SEB	QH2A	380	MSEC T0
6 SEB	QH2S	40 LIN	MSEC T0
7 SEB	QH2T	12 ON	MSEC T0
8 SEB	QH3A	500	MSEC T0
9 SEB	QH3S	10 LIN	MSEC T0
10 SEB	QH3T	28 ON	MSEC T0
11 SEB	QH4A	1000	MSEC T0
12 SEB	QH4S	50 LIN	MSEC T0
13 SEB	QH4T	40 ON	MSEC T0
14 SEB	QH5A	2000	MSEC T0
15 SEB	QH5S	30 LIN	MSEC T0
16 SEB	QH5T	52 ON	MSEC T0
17 SEB	QH6A	-1000	MSEC T0
18 SEB	QH6S	600 LIN	MSEC T0
19 SEB	QH6T	70 ON	MSEC T0



100usec/div 200aps/div. 5/22/85

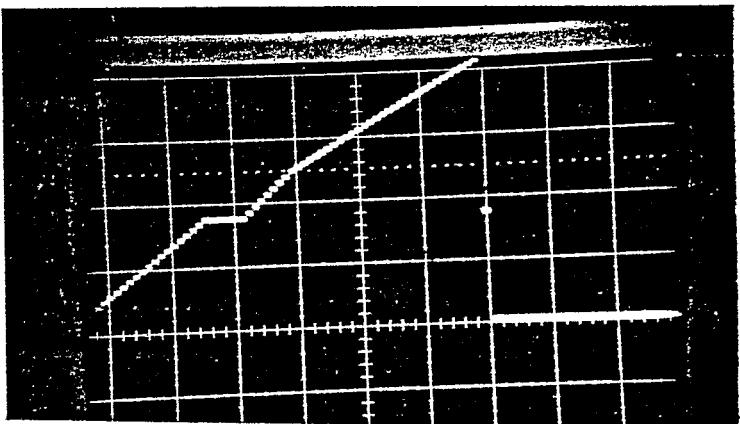


SEB AFELT 22-May-85 06:15 16.2
TIME= 1000 PRIORITY= 4

AREA	EQPT	REQUEST	READBACK
1 SEB	QVERT	1 ON	0 1
2 SEB	QV1A	50	MSEC T0
3 SEB	QV1S	50 LIN	MSEC T0
4 SEB	QV1T	2 OFF	MSEC T0
5 SEB	QV2A	700	MSEC T0
6 SEB	QV2S	200 RMP	MSEC T0
7 SEB	QV2T	4 ON	MSEC T0
8 SEB	QV3A	700	MSEC T0
9 SEB	QV3S	400 RMP	MSEC T0
10 SEB	QV3T	26 ON	MSEC T0
11 SEB	QV4A	1700	MSEC T0
12 SEB	QV4S	800 RMP	MSEC T0
13 SEB	QV4T	40 ON	MSEC T0
14 SEB	QV5A	1000	MSEC T0
15 SEB	QV5S	32 RMP	MSEC T0
16 SEB	QV5T	32 ON	MSEC T0
17 SEB	QV6A	-2000	MSEC T0
18 SEB	QV6S	1000 LIN	MSEC T0
19 SEB	QV6T	70 ON	MSEC T0

20/DIV 100mSEC/DIV

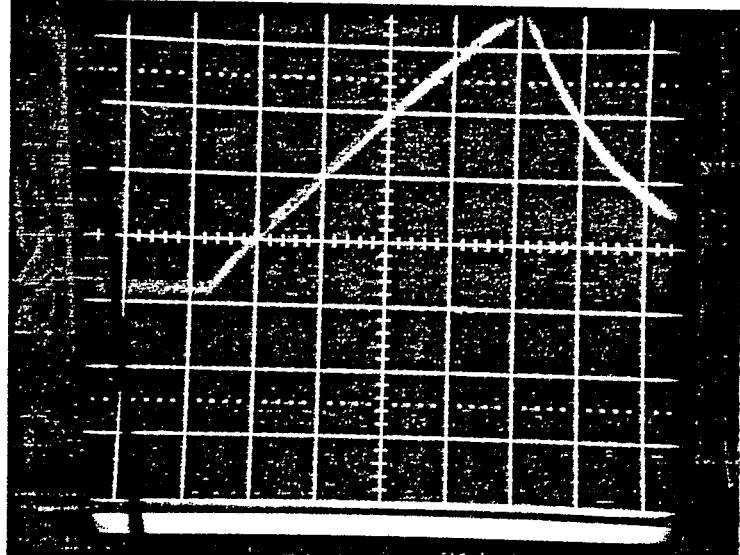
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20 DURS/DIV

100mSEC/DIV

5/22/85



V GND